

CLAIMS

What is claimed is:

- 5 1. A pharmaceutical composition comprising functional factor VIIa and
 fibrinogen in a pharmaceutically acceptable carrier.
2. The composition of claim 1 wherein the amounts of said functional factor
 VIIa and said fibrinogen are effective to facilitate blood coagulation at
10 sites of blood vessel injury.
3. The composition of claim 1 wherein the composition is free of other blood
 clotting factors.
4. The composition of claim 1 wherein the effective amount produces a
15 hemostatic effect.
5. The composition of claim 1 wherein said factor VIIa is recombinantly
 produced.
- 20 6. The composition of claim 1 wherein said fibrinogen is recombinantly
 produced.
7. The composition of claim 1 further comprising a stabilizing agent.
- 25 8. The composition of claim 1 wherein said carrier is water, saline,
 buffered saline or sucrose solution.

9. The composition of claim 1 wherein the concentration of said factor VIIa is sufficient to produce an administered amount of up to about 300 IU/kg body weight.

5 10. The composition of claim 1 wherein the concentration of said fibrinogen is sufficient to produce an administered amount of up to about 12.0 g/L plasma.

10 11. The composition of claim 1 wherein the concentration of said factor VIIa is up to about 20,000 IU/10mL.

12. The composition of claim 1 wherein the concentration of said fibrinogen is up to about 1g/10mL.

15 13. The composition of claim 1 wherein said composition is lyophilized.

14. The composition of claim 13 wherein the composition is reconstituted in a proper excipient to a concentration of about up to 20,000 IU/10mL for said recombinant factor VIIa and up to about 1 g/10mL for said fibrinogen.

20 15. A method for treating an individual having a bleeding condition comprising administering to the individual the composition of any one of claims 1 to 14.

25 16. The method according to claim 15 wherein the individual has a blood clotting deficiency.

17. The method according to claim **15** wherein the individual has a traumatic injury which causes bleeding.

18. The method according to claim **15** wherein the individual is undergoing a surgical procedure.

19. The method of claim **15** wherein the administered amount of said factor VIIa is about up to 300 IU/kg of body weight.

20. The method of claim **15** wherein the administered amount of said fibrinogen is about up to 12.0 g/L plasma.

21. The method of claim **15** wherein the composition is administered by continuous infusion.

22. The method of claim **15** wherein the composition is administered by bolus injection.

23. The method of claim **15** wherein said factor VIIa and said fibrinogen may be administered sequentially or simultaneously.

24. The method of claim **15** wherein the concentration of said factor VIIa is about up to 300 IU/kg body weight and the concentration of said fibrinogen is up to about 12 g/L plasma.

25. A kit for blood coagulation comprising factor VIIa, fibrinogen, a pharmaceutically acceptable carrier, and a device for administration of the

composition, wherein factor VIIa and fibrinogen are present in amounts effective for treating an individual in one or more administrations.

5 **26.** A kit for blood coagulation according to claim **25** wherein the factor VIIa and fibrinogen are separately contained.

27. A kit for blood coagulation according to claim **25** wherein one or both factor VIIa and/or fibrinogen are in a dry or lyophilized form.

10 **28.** A kit for blood coagulation according to claim **25** wherein one or both factor VIIa and/or fibrinogen are in solution.

29. A kit for blood coagulation according to claim **25** wherein the kit includes one or more stabilizing agents along with factor VIIa and/or fibrinogen.

15 **30.** A kit for blood coagulation according to claim **25** wherein said device for administration is suitable for intravenous administration.